

Patent Claims

1. Method for the wet cleaning of objects, in which method the objects to be cleaned are brought into intensive contact with a cleaning fluid which has an organic solvent with good solubility properties for the dirt to be removed,

characterized in that,

a cleaning fluid is used which forms a solution within certain concentration and temperature ranges, and outside of this range, has a miscibility gap, whereby the cleaning fluid for the wet cleaning is present in the state of the miscibility gap and contains the solvent in a concentration that at the temperature prevailing at the wet cleaning, lies above that concentration at which, starting from water, upon addition of the solvent, the miscibility gap sets in.

2. Method according to claim 1, characterized in that the organic solvent is present in a concentration of at least 5% by weight, preferably at least 10% by weight.

3. Method according to claim 1 or 2, that cleaning is undertaken under the effect of ultrasound.

4. Method according to one of the claims 1 through 3, characterized in that the temperature of the wet cleaning lies between 20° and 50° C.

5. Cleaning fluid for the wet cleaning of objects, with a cleaning fluid having an organic solvent with good solubility properties for the dirt to be removed,

characterized in that

5 the cleaning fluid forms a solution within certain concentration and temperature ranges, and outside of these ranges, has a miscibility gap, whereby the cleaning fluid is present for the wet cleaning in the state of the miscibility gap and contains the solvent in a concentration which at the temperature that prevails at the wet cleaning, lies above that
10 concentration at which, starting from water, upon addition of the solvent, the miscibility gap sets in.

6. Cleaning fluid according to claim 5, characterized in that the organic solvent is propylene-glycol-ether.

7. Cleaning fluid according to claim 6, characterized in that the
15 concentration of the propylene-glycol-ether lies between 10 and 30% by weight, preferably between 10 and 20% by weight.

8. Cleaning fluid according to claim 5, characterized in that the organic solvent contains an ether-acetate.

9. Cleaning fluid according to claim 8, characterized in that the
20 ether-acetate has a concentration between 5 and 30% by weight, preferably between 5 and 15% by weight.

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10. Cleaning fluid according to one of the claims 5 through 9, characterized in that the cleaning fluid comprises water and an organic solvent.

11. Cleaning fluid according to one of the claims 5 through 9, characterized in that the cleaning fluid comprises water and at least two organic solvents, whereby a first organic solvent has good water-solubility and a second organic solvent has poor water solubility and can be dissolved well in the first organic solvent.

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